

Exhibit 3: Emboss Align (Nucleic Acid) Alignment

SEQ147	401	cgacgataaagagccgagtgttcagagtgggtgtgaacgttccaaaggag 	450
T_petrophila	401	cgacgataaagagccgagtgttcagagtgggtgtgaacgttccaaaggag 	450
SEQ147	451	ttcagagatctcgtgaaagagaaaataggagatctctgggaggaacttcc 	500
T_petrophila	451	ttcagagatctcgtgaaagagaaaataggcgatttctgggaggaacttcc 	500
SEQ147	501	acttcttgagagagacttcaaaacggctctcgaaggcctacaaacttggtg . .	550
T_petrophila	501	gctccttgagagagacttcaaaacggcttcgaaggcctacaaacttggtg 	550
SEQ147	551	cggaaaaacttctggattgatggaaagtctcaaagtttggagacggaa 	600
T_petrophila	551	cggaaaaacttctggattgatggaaagtctcaaagtttggagacggaa 	600
SEQ147	601	aaactcttggaaaaagggtcccccataaaaggcctcgaaggttatctcgcatg 	650
T_petrophila	601	aaactcttaaagaaaggcccttcagaaggactcgagggttatctcgctg 	650
SEQ147	651	tagggagctcctggagagatttcaaagggttgcatttcgcatttt 	700
T_petrophila	651	tagggagctcctggagagatttcaaagggttgcatttcgcatttt 	700
SEQ147	701	cgcttttgcgttgcatttttttttttttttttttttttttttttttttt 	750
T_petrophila	701	cgcttttgcatttttttttttttttttttttttttttttttttttttt 	750
SEQ147	751	ttgatccagagactgacaagaatcattctccacgaaaacacatggaaag 	800
T_petrophila	751	ttgatccagagactgacaagaattgtcccttcacgaaaacacatggaaag 	800
SEQ147	801	cgttgaagatcaaaaaagggttgcatttttttttttttttttttttt 	850
T_petrophila	801	cgttgaagatcaaaaaagggttgcatttttttttttttttttttt 	850
SEQ147	851	agatagcgaatctgaacaacaaactcactctgtatgcacatcctcgcgata 	900
T_petrophila	851	aaatagcgaatctgaacaacaaactcactctgtatgcacatcctcgcgata 	900
SEQ147	901	cacagagagagaaagagagagggtgtcaacgcttggagc 	936
T_petrophila	901	cacagagagagaaagagagagggtgtcaacgcttggagctga 	939